Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: Harry Knaup
Well Name/Number: Swears 6-C
Location: SE NW Section 9 T35N R2W County: Toole MT; Field (or Wildcat) Kevin Sunburst
County. 1001e MIT, Fleid (of Wildcat) Reviit Sumburst
Air Quality
(possible concerns)
Long drilling time: No, 2 to 4 days drilling time.
Unusually deep drilling (high horsepower rig): No, single derrick drilling rig to drill to
1700' TD. Possible H2S gas production: Slight.
In/near Class I air quality area: No Class I air quality area.
Air quality permit for flaring/venting (if productive): Yes, DEQ air quality permit required
under 75-2-211.
Mitigation:
_X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other:
Comments: No special concerns – using small single derrick drilling rig to drill
to 1700' TD
Water Quality
(possible concerns)
Salt/oil based mud: No, air, air mist drilling system to be used.
High water table: No high water table anticipated.
Surface drainage leads to live water: Closest drainage is an unnamed ephemeral
drainage to a dry lake bed, about 1/8 of a mile to the south and ½ of a mile to the
northwest from this location. About 1/8 of a mile to the south is a stock pond.
Water well contamination: No, no water wells within 1 mile of this location. Porous/permeable soils: No, silty sandy bentoniteic soils.
Class I stream drainage: No Class I stream drainages.
Mitigation:
Lined reserve pit
X Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:
Comments: <u>250' of surface/production casing cemented to surface adequate.</u> No potable water in this area. Also, fresh water air/mist systems to be used.
No potable water in this area. Also, fresh water all/fillst systems to be used.
Soils/Vegetation/Land Use
(possible concerns)
Steam crossings: No, stream crossings anticipated.
High erosion potential: No, small cut, up to 1.7' and small fill, up to 3.3', required.

Loss of soil productivity: No, location will be restored after drilling if nonproductive. If
productive unused portion of drill site will be reclaimed
Unusually large wellsite: No. 100'X100' location size required.
Damage to improvements: Slight, surface use is dry land cultivated field.
Conflict with existing land use/values: Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoilStream Crossing Permit (other agency review)
Stream crossing Fermit (other agency review) _X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: No special concerns.
Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: Buildings nearby, about 1/8 of a mile to the west
from this location.
Possibility of H2S: Slight
Size of rig/length of drilling time: Small drilling rig/short 2 to 4 days drilling time.
Mitigation:
Proper BOP equipment
Topographic sound barriers
H2S contingency and/or evacuation planSpecial equipment/procedures requirements
Other:_Adequate surface casing operational BOP should mitigate any
concerns. Madison is a depleted reservoir.
Concerns. Madisornis a depicted reservoir.
Comments:No concerns
Wildlife/recreation (possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified
Proximity to sensitive whalle areas (B) will identified: None identified.
Creation of new access to wildlife habitat: No
Conflict with game range/refuge management: No
Threatened or endangered Species Listed threatened or endangered species in Toole
County is the Black Footed Ferret. Proposed species is the Mountain Plover. MT FWP
species of concern are Ferruginous Hawk, Chestnut-collared Longspur, McCown's
Longspur and Brewer's Sparrow.
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: Surface is private cultivated land. No concerns.

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Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified.
Mitigation
avoidance (topographic tolerance, location exception)
_X other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Surface is private cultivated land. No concerns.
Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental servicesPopulation increase or relocation
Comments: No concerns. Existing oil field, Kevin Sunburst Oil & Gas
Field.
Remarks or Special Concerns for this site
Well is a 1700' Madison Formation test. A development well in the Kevin Sunburst Oil
& Gas Field.
Summary: Evaluation of Impacts and Cumulative effects
No long term impacts expected, some short term impacts will occur.
I conclude that the approval of the subject Notice of Intent to Drill (does/does not)
constitute a major action of state government significantly affecting the quality of the
human environment, and (does/does not) require the preparation of an environmental
impact statement.
Prepared by (BOGC): Steven Sasaki
(title:) Chief Field Inspector_
Date: October 4, 2010
Other Persons Contacted:
_Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)

Toole County water wells
(subject discussed)
October 4, 2010
(date)
US Fish and Wildlife, Region 6 website
(Name and Agency)
ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES
MONTANA COUNTIES, Toole County
(subject discussed)
October 4, 2010
(date)
Montana Natural Heritage Program Website (FWP)
(Name and Agency)
Heritage State Rank= S1, S2, S3, T35N R2W
(subject discussed)
October 4, 2010
(date)
If location was inspected before permit approval:
Inspection date:
Inspector:
Others present during inspection: